ANNOTATED CHECK-LIST OF VASCULAR PLANTS OF SAGEHEN CREEK DRAINAGE BASIN, NEVADA COUNTY, CALIFORNIA

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Subsequent to the establishment of the University of California's Sagehen Creek Field Station in 1951, the Sagehen Creek Drainage Basin has been the site of numerous research projects. These research projects have yielded more than 50 scientific publications (Leopold, 1971). However, only two of these papers—a study of bogs (Rae, 1970) and a study of conifer regeneration following burns (Bock and Bock, 1969)—have been concerned with vegetation, the bulk of the investigations having been directed towards studies of animals. The lack of an inventory of vascular plants has severely hampered efforts to obtain a broader understanding of the relationships of plants and animals in this region. The present check-list, therefore, is an attempt to compile an annotated catalogue of vascular plants that will be useful in future research and teaching activities at the Sagehen Creek Field Station and in other localities of the northern Sierra Nevada in which there are similar environmental conditions.

The Sagehen Creek Drainage Basin is located in northeastern Nevada County, California, and is here defined as the roughly oval shaped upper Sagehen Creek valley, extending westerly from the point at which California State Highway 89 crosses Sagehen Creek to Carpenter Ridge (fig. 1); it is approximately 8.9 km long and averages about 4.8 km in width. Thus, the area comprising the Sagehen Creek Drainage Basin lies between meridians 120° 12′ and 120° 20′ west longitude and between parallels 39° 24′ and 39° 27′ north latitude. The elevation of this area ranges from 1874 m at State Highway 89 to approximately 2680 m at the summit of Carpenter Ridge.

Various studies of the geology of this region, including those of Axelrod (1962), Birkeland (1963, 1964), and Lindgren (1897) have revealed that the bed-rock is granodiorite of Jurassic or Cretaceous age. The bedrock is overlain by andesite, the parent soil material, of Pliocene or Miocene age, with glacial moraine interspersed with Pleistocene alluvium. Glacial moraine occurs along Sagehen Creek from its headwaters almost to the Field Station and north to Independence Lake. Pleistocene alluvium occurs along the creek in a 3.2 km long strip, approximately 1.6 km upstream from the Field Station, and, together with stream terraces, downstream from the Field Station to the confluence of Sagehen Creek with the Little Truckee River. The ridges comprising the north bound-

ary of Sagehen Creek Drainage Basin consist primarily of andesite with occasional outcroppings of a coarse basaltic rock, olivine-diorite (Lindgren, 1897); however, the Sagehen Hills, which represent the southern boundary, are composed of andesite devoid of these outcroppings.

The climate is characterized by dry, warm summers with occasional thunder showers and by winters with heavy snowfalls. Since water derived from rain and heavy snowfall penetrates the porous volcanic rocks and collects on the impervious bed-rock, numerous springs of superficial origin are present. The largest springs occur at the bases of andesitic hills where, at ground level, the volcanic rocks and bed-rock come in contact. This spring water, from slightly acidic soils, is mainly a dilute solution of bicarbonates of calcium, magnesium, and sodium and generally has pH values in the range of 7.2 to 7.8. Due to the origin of the water, spring-fed streamlets contributing to the creek are characterized by a constant flow of water of rather low temperatures (Johnson and Needham, 1966).

The drainage basin is administered by the Tahoe National Forest and the disturbance of native vegetation is limited to grazing by sheep and to recreational activities of man during the summer. Thus, the vegetation is less disturbed than in adjacent valleys.

In general, the habitats present in the area include the wet banks of Sagehen Creek and its streamlet tributaries, "hanging" bogs, and moist meadows at lower elevations and dry, rocky meadows at higher elevations interspersed among mixed coniferous forest associations. These forest associations range from lodgepole—Jeffrey pine associations at lower elevations to red fir—western white pine associations at higher elevations. The principal landmarks are shown in Figure 1.

The following catalogue of plants has been compiled over the last seven years, primarily from the collections of the staff and students at the Sagehen Creek Field Station, and does not purport to be complete, as is indicated by the appended list of observations. Nevertheless, the specimens deposited in the Sagehen Creek Field Station Herbarium represent 438 taxa. These specimens include members of 349 species and 89 infraspecific taxa, representing 60 families and 217 genera. With few exceptions, nomenclature follows that of Munz (1959) and the arrangement of plant families is alphabetical.

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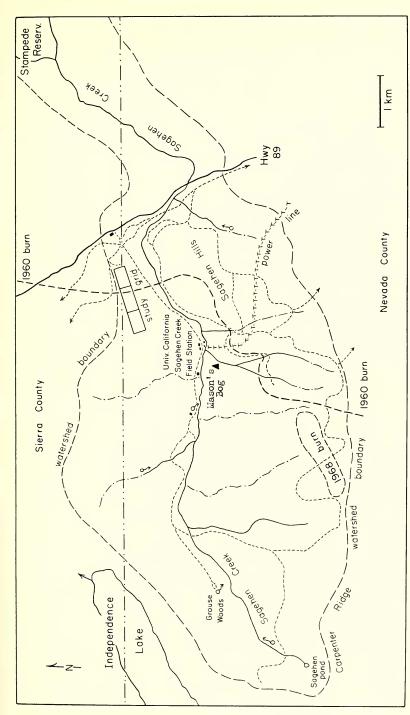


Fig. 1. Principal landmarks of the Sagehen Creek Drainage Basin.

CATALOGUE OF PLANTS

AMARYLLIDACEAE. Amaryllis Family

- Allium bisceptrum Wats. Patis Onion. Infrequent; meadows and dry slopes.
 - A. campanulatum Wats. Sierra Onion. Common; dry slopes and open areas in woods.
 - A. validum Wats. Swamp Onion. Frequent; bogs and marshy areas near streamlets.
- Brodiaea gracilis Wats. Slender Brodiaea. Frequent; dry open slopes. B. hyacinthina (Lindl.) Baker. White Brodiaea. Frequent; dry open areas.
 - B. lutea (Lindl.) Mort. var. analina (Greene) Munz. Golden Brodiaea, Pretty Face. Infrequent; dry meadows and open areas in woods.

APOCYNACEAE. Dogbane Family

Apocynum pumilum (Gray) Greene. Mountain Dogbane. Frequent; exposed rocky slopes.

ASCLEPIADACEAE. Milkweed Family

Asclepias fascicularis Dcne. Narrow-leaved Milkweed. Rare; exposed rocky slopes.

ASPIDIACEAE. Shield Fern Family

Cystopteris fragilis (L.) Bernh. Brittle Fern. Infrequent; moist soil of headwaters of Sagehen Creek.

BETULACEAE. Birch Family

Alnus tenuifolia Nutt. Mountain Alder, Thin-leaved Alder. Frequent; along Sagehen Creek.

BORAGINACEAE. Borage Family

- Cryptantha affinis (Gray) Greene. Common Cryptantha. Common; dry slopes and in woods.
 - *C. simulans* Greene. Pine Cryptantha. Infrequent; dry slopes and open places in woods.
- Cynoglossum occidentale Gray. Western Hound's Tongue. Frequent; open places in woods.
- *Hackelia californica* (Gray) Jtn. California Stickseed. Infrequent; gravelly slopes and open places in woods.
 - H. floribunda (Lehm.) Jtn. Many-flowered Stickseed. Frequent; shaded slopes and edges of woods.
 - *H. micrantha* (Eastw.) J. L. Gentry. Little-flowered Stickseed. Infrequent; moist shaded slopes in woods.

- Plagiobothrys hispidulus (Greene) Jtn. Harsh Plagiobothrys. Frequent; moist meadows.
 - P. hispidus Gray. Bristly Popcorn Flower. Infrequent; dry gravelly slopes.
 - P. tener (Greene) Jtn. Slender Allocarya. Infrequent; moist lower meadows.

CAPRIFOLIACEAE. Honeysuckle Family

- Lonicera cauriana Fern. Blue Fly Honeysuckle. Rare; moist shaded banks of Sagehen Creek at lower elevations.
 - L. conjugialis Kell. Double Honeysuckle. Rare; wooded slopes near Sagehen Creek.
 - L. involucrata (Richards.) Banks ex Spreng. Black Twin-berry. Infrequent; near bogs and edges of Sagehen Creek.
- Sambucus caerulea Raf. Blue Elderberry. Infrequent; brushy slopes. S. microbotrys Rydb. Mountain Red Elderberry. Infrequent; moist meadows on higher slopes.
- Symphoricarpos acutus (Gray) Dieck. Sharp Snowberry. Infrequent; open rocky slopes.
 - S. vaccinioides Rydb. Mountain Snowberry. Infrequent; exposed rocky slopes.

CARYOPHYLLACEAE. Pink Family

- Arenaria congesta Nutt. ex T. & G. Capitate Sandwort. Frequent; dry rocky slopes.
 - A. Kingii (Wats.) Jones var. glabrescens (Wats.) Maguire. King's Sandwort. Infrequent; Carpenter Ridge and higher rocky slopes.
 - A. Nuttallii Pax ssp. gracilis (Gray) Maguire. Nuttall's Slender Sandwort. Infrequent; higher rocky slopes and Carpenter Ridge.
- Cerastium vulgatum L. Larger Mouse-ear Chickweed. Frequent; moist meadows.
- Sagina saginoides (L.) Karst. var. hesperia Fern. Arctic Pearlwort. Infrequent; moist meadows.
- Silene Douglasii Hook. Douglas's Campion. Frequent; dry rocky areas on lower slopes.
 - S. invisa Hitchc. & Maguire. Unseen Campion. Infrequent; higher meadows and Carpenter Ridge.
 - S. Menziesii Hook. Menzies's Campion. Infrequent; dry rocky areas on lower slopes.
 - S. montana Wats. Mountain Campion. Infrequent; dry rocky areas on lower slopes.
- Spergularia rubra (L.) J. & C. Presl. Purple Sand Spurry. Rare; in disturbed areas.
- Stellaria calycantha (Ledeb.) Bong. ssp. interior Hult. Interior Starwort. Infrequent; moist meadows.
 - S. longipes Goldie. Long-stalked Starwort. Frequent; moist meadows.

CHENOPODIACEAE. Goosefoot Family

- Chenopodium album L. Pigweed, Lamb's Quarters. Infrequent; disturbed areas.
 - C. Berlandieri Moq. var. Zschackei (Murr.) Murr. Zschack's Pitseed Goosefoot. Rare; disturbed areas near Field Station.
 - C. incognitum H. A. Wahl. Disguised Chenopodium. Infrequent; disturbed areas near Sagehen Creek.
- Monolepis Nuttalliana (Schult.) Greene. Nuttall's Monolepis. Infrequent; dry areas on lower slopes.

Compositae. Sunflower Family

- Achillea lanulosa Nutt. Yarrow. Abundant; meadows and slopes in woods.
- Antennaria rosea Greene. Rosy Everlasting. Frequent; meadows and shaded places in woods.
- Arnica Chamissonis Less. ssp. foliosa (Nutt.) Maguire. Leafy Meadow Arnica. Frequent; moist meadows and near springs and streamlets.
 - A. discoidea Benth. var. alata (Rydb.) Cronq. Winged Rayless Arnica. Common; open places in woods and near Sagehen Creek.
- Artemisia tridentata Nutt. Basin Sagebrush. Common; exposed slopes and edges of woods.
- Aster adscendens Lindl. Long-leaved Aster. Infrequent; meadows.
 - A. alpigenus (T. & G.) Gray ssp. Andersonii (Gray) Onno. Anderson's Aster. Frequent; bogs and moist meadows.
 - A. integrifolius Nutt. Entire-leaved Aster. Infrequent; edges of dry meadows and in woods.
 - A. occidentalis (Nutt.) T. & G. Western Mountain Aster. Common; moist meadows and edges of woods.
- Balsamorhiza sagittata (Pursh) Nutt. Arrow-leaved Balsamroot. Infrequent; meads and exposed slopes.
- Chaenactis Douglasii (Hook.) H. & A. Hoary Chaenactis. Frequent; exposed gravelly slopes.
- Cirsium Andersonii (Gray) Petr. Anderson's Thistle. Infrequent; exposed gravelly slopes.
 - C. Coulteri Harv. & Gray. Coulter's Thistle. Infrequent; exposed rocky slopes.
 - C. Drummondii T. & G. var. acaulescens (Gray) Macbr. Dwarf Thistle. Common; meadows and shaded places in woods.
- Crepis intermedia Gray. Intermediate Hawskbeard. Infrequent; dry slopes and meadows.
- Erigeron Coulteri Porter. Coulter's Daisy. Frequent; moist meadows and near Sagehen Creek.
 - E. peregrinus (Pursh) Greene ssp. callianthemus (Greene) Cronq. var. angustifolius (Gray) Cronq. Wandering Daisy. Infrequent; meadows.
- Eriophyllum lanatum (Pursh) Forbes var. integrifolium (Hook.) Smiley.

Entire-leaved Eriophyllum. Frequent; dry rocky slopes and open places in woods.

Eupatorium occidentale Hook. Western Eupatorium. Infrequent; rocky slopes and drying meadows.

Gnaphalium palustre Nutt. Lowland Cudweed. Frequent; damp meadows.

G. thermale Nels. Slender Cudweed. Infrequent; meadows.

Haplopappus Bloomeri Gray. Bloomer's Haplopappus. Infrequent; rocky slopes along edges of woods.

Helianthella californica Gray var. nevadensis (Greene) Jeps. Sierra Helianthella. Infrequent; meadows and dry slopes.

Hieracium albiflorum Hook. White-flowered Hawkweed. Frequent; meadows and edges of woods.

Madia glomerata Hook. Mountain Tarweed. Common; meadows and open places in woods.

M. minima (Gray) Keck. Least Tarweed. Infrequent; dry gravelly slopes in woods.

Microseris nutans (Hook.) Sch.-Bip. Nodding Scorzonella. Frequent; rocky slopes in woods.

Psilocarphus brevissimus Nutt. var. brevissimus. Dwarf Wooly-heads. Infrequent; drying lower meadows.

Senecio integerrimus Nutt. var. exaltatus (Nutt.) Cronq. Single-stemmed Butterweed. Common; meadows and dry slopes in woods.

S. pauciflorus Pursh. Rayless Alpine Butterweed. Frequent; moist areas in meadows and woods.

S. pauciflorus Pursh var. jucundulus Jeps. Streambank Butterweed. Infrequent; wet meadows and along banks of Sagehen Creek.

S. triangularis Hook. Arrowhead Butterweed. Frequent; moist meadows and banks of streamlets.

Solidago canadensis L. ssp. elongata (Nutt.) Keck. Meadow Goldenrod. Infrequent; moist meadows and shaded places in woods.

Stephanomeria lactucina Gray. Large-flowered Stephanomeria. Infrequent; open sandy places in woods on lower slopes.

Taraxacum officinale Weber. Common Dandelion. Common; meadows and moist places in woods.

Tragopogon dubius Scop. Yellow Salsify. Frequent; disturbed areas near Field Station and along roads.

Wyethia mollis Gray. Mountain Mule-ears. Common; dry meadows and exposed slopes in woods.

Convolvulaceae. Morning-Glory Family

Convolvulus arvensis L. Bindweed. Rare; disturbed areas along roads.

CORNACEAE. Dogwood Family

Cornus stolonifera Michx. American Dogwood. Rare; edge of Sagehen Creek.

CRUCIFERAE. Mustard Family

- Arabis glabra (L.) Bernh. Tower-Mustard. Frequent; dry open areas of lower slopes.
 - A. Holboellii Hornem. var. pinetorum (Tides.) Roll. Holboell's Rockcress. Frequent; dry open areas on lower slopes.
 - A. Holboellii Hornem. var. retrofracta (Grah.) Rydb. Infrequent; dry rocky areas on lower slopes.
 - A. Lyallii Wats. Lyall's Rock-cress. Infrequent; gravelly soils of Carpenter Ridge and higher slopes.
 - A. platysperma Gray. Broad-seeded Rock-cress. Infrequent; higher dry slopes and Carpenter Ridge.
- Barbarea orthoceras Ledeb. American Winter-cress. Frequent; moist meadows.
- Capsella Bursa-pastoris (L.) Medic. Shepherd's-Purse. Infrequent; disturbed areas near Field Station.
- Cardamine Breweri Wats. Brewer's Bitter-cress. Frequent; bogs and along streamlets.
- Descurania Richardsonii (Sweet) O. E. Schulz ssp. incisa (Engelm.)
 Detl. Infrequent; disturbed areas on lower slopes.
 - D. Richardsonii (Sweet) O. E. Schulz ssp. viscosa (Rydb.) Detl. Mountain Tansy-mustard. Infrequent; moist shaded areas on lower slopes.
- Draba stenoloba Ledeb. var. nana (O. E. Schulz) C. L. Hitchc. Alaska Whitlow-grass. Infrequent; moist meadows and along streamlets.
 - D. stenoloba Ledeb. var. ramosa C. L. Hitchc. Infrequent; shaded areas and in woods.
- Erysimum perenne (Wats. ex Cov.) Abrams. Sierra Wallflower. Infrequent; disturbed areas and open rocky places.
- Ledipidum virginicum L. var. pubescens (Greene) C. L. Hitchc. Downy Pepper-grass. Infrequent; dry open areas.
- Nasturtium microphyllum Boenn. ex Rchb. Small-leaved Water-cress. Infrequent; along streamlets.
 - N. officinale R. Br. Water-cress. Frequent; in running water of small streamlets.
- Raphanus sativus L. Wild Radish. Infrequent; disturbed areas near Field Station.
- Rorippa curvisiliqua (Hook.) Bessey. Western Yellow-cress. Frequent; moist meadows.
- Sisymbrium altissimum L. Tumble-Mustard. Infrequent; disturbed areas along roads.
- Streptanthus tortuosus Kell. Mountain Streptanthus. Infrequent; disturbed areas on lower dry slopes.
- Thlaspi arvense L. Field Penny-cress. Rare; meadows near Field Station.

CUPRESSACEAE. Cypress Family

Calocedrus decurrens (Torr.) Florin. Incense-cedar. Rare; higher dry

slopes.

Juniperus occidentalis Hook. Western Juniper. Very rare; dry slopes.

CUSCUTACEAE. Dodder Family.

Cuscuta californica Choisy. California Dodder. Infrequent; meadows.

CYPERACEAE. Sedge Family

- Carex aquatilis Wahl. Water Sedge. Common; bogs and edges of Sagehen Creek.
 - C. arctogena H. Sm. Water Sedge. Common; bogs and edges of Sagehen Creek.
 - C. athrostachya Olney. Slender-beaked Sedge. Frequent; wet meadows.
 - C. aurea Nutt. Golden-fruited Sedge. Infrequent; boggy areas and edges of streamlets.
 - C. capitata L. Capitate Sedge. Frequent; damp meadows and along streamlets in woods.
 - C. Cusickii Mkze. Cusick's Sedge. Common; marshy areas and edges of streamlets.
 - C. disperma Dewey. Soft-leaved Sedge. Infrequent; in woods along streamlets.
 - C. Douglasii W. Boott. Douglas's Sedge. Abundant; open, dry meadows.
 - C. eurycarpa Holm. Well-fruited Sedge. Common; bogs and damp meadows.
 - C. heteroneura W. Boott. Various-nerved Sedge. Frequent; dry soils in woods.
 - C. integra Mkze. Smooth-beaked Sedge. Infrequent; damp meadows.
 - C. Jonesii Bailey. Jones's Sedge. Common; meadows.
 - C. Kelloggii W. Boott. Kellogg's Sedge. Common; bogs and adjacent to streamlets in meadows.
 - C. lanuginosa Michx. Wooly Sedge. Common; wet meadows.
 - C. limosa L. Shore Sedge. Frequent; bogs.
 - C. multicostata Mkze. Many-ribbed Sedge. Common; damp meadows.
 - C. rostrata Stokes. Beaked Sedge. Infrequent; wet meadows.
 - C. simulata Mkze. Short-beaked Sedge. Abundant; bogs and damp meadows.
 - C. teneraeformis Mkze. Sierra Slender Sedge. Infrequent; marshy areas.
 - C. vernacula Bailey. Vernacular Sedge, Native Sedge. Frequent; bogs.
 - C. vesicaria L. Inflated Sedge. Common; bogs and damp meadows.
 - C. Whitneyi Olney. Whitney's Sedge. Infrequent; wet meadows.

Eriophorum gracile Koch. Slender Cotton-grass. Abundant; bogs.

- Heleocharis quinqueflora (Hartm.) Schwarz. Five-flowered Spike-rush. Frequent; bogs.
- Scirpus microcarpus Presl. Small-fruited Bulrush. Infrequent; damp meadows.

Droseraceae. Sundew Family

Drosera anglica Huds. Oblong-leaved Sundew. Common; bogs.

D. rotundifolia L. Round-leaved Sundew. Common; bogs.

EQUISETACEAE. Horstail Family.

- Equisetum arvense L. Common Horsetail. Frequent; along Sagehen Creek and streamlet tributaries.
 - E. laevigatum A. Br. Braun's Scouring-rush. Common; bogs and streamlets.

ERICACEAE. Heath Family

- Arctostaphylos nevadensis Gray. Pinemat Manzanita. Frequent; exposed slopes and in woods.
 - A. patula Greene. Green-leaved Manzanita. Common; exposed slopes and in woods.
- Sarcodes sanguinea Torr. Snow Plant. Infrequent; rocky slopes in woods. Vaccinium occidentale Gray. Western Blueberry, Western Huckleberry. Frequent; edges of bogs.

EUPHORBIACEAE. Spurge Family

Euphorbia serpyllifolia Pers. Thyme-leaved Spurge. Rare; disturbed areas along roads.

FAGACEAE. Beech Family

- Castanopsis sempervirens (Kell.) Dudl. Bush Chinquapin, Sierra Chinquapin. Infrequent; among mixed conifers on middle and upper slopes.
- Quercus vaccinifolia Kell. Huckleberry Oak. Infrequent; among mixed conifers on open rocky slopes.

FUMARIACEAE. Fumitory Family

Dicentra uniflora Kell. Steer's Head. Infrequent; gravelly soil of Carpenter Ridge and higher slopes.

GENTIANACEAE. Gentian Family

- Gentiana Amarella L. Northern Gentian. Infrequent; banks of Sagehen Creek.
 - G. Newberryi Gray. Alpine Gentian. Infrequent; moist meadows and banks of Sagehen Creek.
 - G. simplex Gray. Hiker's Gentian. Frequent; moist meadows.

GRAMINEAE. Grass Family

- Agropyron Parishii Scribn. & Sm. Parish's Wheat-grass. Frequent; dry slopes and meadows.
 - A. trachycaulum (Link) Malte. Slender Wheat-grass. Common; meadows.

- Agrostis exarata Trin. Western Bent-grass. Common; meadows.
 - A. idahoensis Nash. Idaho Bent-grass. Common; meadows.
- A. scabra Willd. Rough Hair-grass, Tickle-grass. Frequent; meadows.
- Alopecurus aequalis Sobol. Little Meadow-foxtail. Infrequent; meadows.
- Bromus ciliatus L. Fringed Brome. Frequent; dry soils at edges of meadows.
 - B. marginatus Nees. Large Mountain Brome-grass. Common; meadows and dry slopes.
 - B. Orcuttianus Vasey. Orcutt's Brome-grass. Frequent; dry soils.
 - B. tectorum L. Cheat Grass, Downy Cheat. Abundant; dry soils.
 - B. tectorum L. var. glabratus Spenner. Infrequent; dry slopes.
- Dactylis glomerata L. Orchard Grass. Common; meadows.
- Deschampsia caespitosa (L.) Beauv. Tufted Hair-grass. Common; meadows and damp soils.
 - D. danthonioides (Trin.) Munro ex Benth. Annual Hair-grass. Frequent; meadows.
 - D. elongata (Hook.) Munro ex Benth. Slender Hair-grass. Abundant; meadows and slopes.
- Elymus cinereus Scribn. & Merr. Gray Rye-grass. Infrequent; meadows and dry slopes.
 - E. glaucus Buckl. Western Rye-grass. Frequent; dry soils.
 - E. triticoides Buckl. Alkali Rye-grass. Common; dry slopes.
- Festuca rubra L. Red Fescue. Infrequent; meadows.
- Glyceria elata (Nash) Hitchc. Tall Manna-grass. Infrequent; meadows.
 - G. pauciflora Presl. Few-flowered Manna-grass. Infrequent; meadows.
 - G. striata (Lam.) Hitchc. Fowl Meadow Grass. Frequent; meadows and damp soils.
- Hordeum brachyantherum Nevskii. Meadow Barley. Frequent; meadows.
 - H. jubatum L. Foxtail. Common; dry slopes.
- Melica bulbosa Geyer ex Porter & Coult. Western Melica. Infrequent; meadows and moist soils.
 - M. fugax Bol. var. inexpansa Suksd. Small Onion-grass. Rare; dry rocky soils.
 - M. fugax Bol. var. Macbridei (Rowland) Beetle. Rare; dry rocky soils.
 - M. stricta Bol. Nodding Melica. Infrequent; dry rocky slopes.
- Muhlenbergia filiformis (Thurb.) Rydb. Slender Muhlenbergia. Frequent; bogs and damp meadows.
- Oryzopsis hymenoides (R. & S.) Ricker. Sand Bunch Grass, Indian Mountain Rice. Infrequent; damp meadows.
- Phleum alpinum L. Mountain Timothy. Frequent; meadows.
- P. pratense L. Cultivated Timothy. Frequent; meadows and dry slopes. Poa epilis Scribn. Mountain Bluegrass. Abundant; meadows.
 - P. nervosa (Hook.) Vasey. Hooker's Bluegrass. Infrequent; shaded slopes.

- P. nevadensis Vasey ex Scribn. Nevada Bluegrass. Frequent; meadows and woods.
- P. Pringlei Scribn. Pringle's Bluegrass. Infrequent; dry rocky slopes.
- P. Sandbergii Vasey. Sandberg's Bluegrass. Infrequent; dry rocky slopes.
- P. scabrella (Thurb.) Benth. ex Vasey. Malpais Bluegrass. Infrequent; dry soils.
- Sitanion Hystrix (Nutt.) J. G. Sm. Bottlebrush Squirrel-tail. Frequent; meadows and dry slopes.
- Stipa Elmeri Piper & Brodie ex Scribn. Elmer's Stipa. Infrequent; among mixed conifers on dry rocky slopes.

HYDROPHYLLACEAE. Waterleaf Family

- Hesperochiron pumilus (Griseb.) Porter. Dwarf Hesperochiron. Rare; moist slopes and meadows.
- Hydrophyllum capitatum Dougl. var. alpinum Wats. Alpine Woolenbreeches. Common; moist slopes and shaded places in woods.
- Nama Lobbii Gray. Lobb's Nama. Infrequent; dry brushy areas previously burned.
- Nemophila parviflora Dougl. ex Benth. var. Austinae (Eastw.) Brand. Austin's Small-flowered Nemophila. Infrequent; moist wooded areas on lower slopes.
 - N. pedunculata Dougl. ex Benth. Mountain Nemophila. Infrequent; moist wooded places on lower slopes.
 - N. spatulata Cov. Sierra Nemophila. Frequent; meadows and moist lower slopes.
- Phacelia hastata Dougl. ex Lehm. Silver-leaf Phacelia. Common; dry rocky areas, (aff. Phacelia mutabilis Greene).
 - P. humilis T. & G. Low Phacelia. Common; dry gravelly slopes and edges of woods.
 - P. hydrophylloides Torr. ex Gray. Waterleaf Phacelia. Infrequent; gravelly slopes and open places in woods.

HYPERICACEAE. St. John's-wort Family

- Hypericum anagalloides Cham. & Schlect. Tinker's Penny, Creeping St. John's-wort. Frequent; boggy areas and stream banks.
 - H. formosum HBK. var. Scouleri (Hook.) Coult. Scouler's St. John's-wort. Frequent; boggy areas and near springs.

IRIDACEAE. Iris Family

- Iris missouriensis Nutt. Western Blue-flag. Frequent; dry meadows and open rocky areas in woods.
- Sisyrinchium idahoense Bickn. Idaho Blue-eyed Grass. Infrequent; meadows and moist areas in woods.

JUNCACEAE. Rush Family

- Juncus balticus Willd. var. montanus Engelm. Baltic Rush. Common; meadows and along streamlets in woods.
- J. chlorocephalus Engelm. Green-headed Rush. Infrequent; meadows and moist lower slopes.
 - J. dubius Engelm. Mariposa Rush. Infrequent; damp meadows and stream banks.
 - J. longistylus Torr. Long-styled Rush. Infrequent; moist meadows and stream banks.
 - J. nevadensis Wats. Sierra Rush. Common; bogs and damp shadows.
 - J. orthophyllus Cov. Straight-leaved Rush. Frequent; bogs and damp meadows.
- Luzula campestris (L.) DC. Common Wood-rush. Frequent; stream banks and adjacent to streamlets in bogs.
 - L. divaricata S. Wats. Forked Wood-rush. Frequent; bogs.

LABIATAE. Mint Family

- Mentha arvensis L. Field Mint. Infrequent; along banks of Sagehen Creek at lower elevations.
- Monardella lanceolata Gray. Mustang Mint. Infrequent; dry gravelly slopes.
 - M. odoratissima Benth. Mountain Monardella. Frequent; open rocky slopes and in woods.
 - M. odoratissima Benth. ssp. pallida (Heller) Epl. Pale Monardella. Common; exposed rocky slopes and in woods.
- Stachys rigida Nutt. ex Benth. ssp. rivularis (Heller) Rpl. Brook Hedge Nettle. Frequent; moist open areas and along banks of Sagehen Creek.

LEGUMINOSAE. Pea Family

- Lotus crassifolius (Benth.) Greene. Thick-leaved Lotus. Infrequent; dry areas on lower slopes.
 - L. Purshianus (Benth.) Clem. & Clem. Pursh's Lotus. Frequent; open rocky areas on lower slopes.
- Lupinus Andersonii Wats. var. apertus (Heller) C. P. Sm. Anderson's Lupine. Infrequent; rocky slopes and edges of woods.
 - L. arbustus Dougl. ssp. calcaratus (Heller) D. Dunn. Douglas's Spurred Lupine. Infrequent; meadows and open slopes.
 - L. arbustus Dougl. ssp. silvicola (Heller) D. Dunn. Infrequent; lower dry rocky slopes in woods.
 - L. Breweri Gray. Brewer's Lupine. Infrequent; open rocky slopes and on burned areas.
 - L. caudatus Kell. Kellogg's Spurred Lupine. Infrequent; among mixed conifers on dry lower slopes.

- L. Lyallii Gray. Lyall's Lupine. Infrequent; Carpenter Ridge and higher rocky slopes.
- L. polyphyllus Lindl. ssp. superbus (Heller) Munz. Superb Lupine. Frequent; bogs and moist shaded places.
- Trifolium Andersonii Gray. Anderson's Clover. Infrequent; dry open areas on lower slopes.
 - T. longipes Nutt. Long-stalked Clover. Frequent; meadows and moist shaded places.
 - T. monanthum Gray. Carpet Clover. Infrequent; near springs.
 - T. productum Greene. Shasta Clover. Frequent; moist meadows and shaded places.
 - T. Wormskioldii Lehm. Wormskiold's Clover. Infrequent; moist meadows.

LEMNACEAE. Duckweed Family

- Lemna minima Phil. Least Duckweed. Frequent; slow moving streamlets.
 - L. trisulca L. Ivy-leaved Duckweed. Frequent; slow moving streamlets.

LENTIBULARIACEAE. Bladderwort Family

Utricularia vulgaris L. Common Bladderwort. Rare; open water in Mason's Bog.

LILIACEAE. Lily Family

- Calochortus Leichtlinii Hook. f. Leichtlin's Mariposa. Frequent; dry open areas.
- Camassia Quamash (Pursh) Greene ssp. breviflora Gould. Short-flowered Camass. Abundant; meadows.
- Fritillaria atropurpurea Nutt. Purple Fritillary. Frequent; dry slopes and open places in woods.
- Lilium parvum Kell. Small Tiger Lily. Infrequent; damp shaded areas near springs and in meadows.
- Smilacina stellata (L.) Desf. Star-flower. Frequent; damp meadows and near streamlets.
- Tofieldia glutinosa (Michx.) Pers. ssp. occidentalis (Wats.) C. L. Hitchc. Western Tofieldia. Frequent; bogs.
- Veratrum californicum Durand. Corn-Lily, Skunk-Cabbage. Common; shaded places in damp meadows.
- Zigadenus paniculatus (Nutt.) Wats. Sand-corn, Panicled Zygadene. Frequent; dry places in meadows and woods.

LIMNANTHACEAE. False Mermaid Family

Floerkea proserpinacoides Willd. False Mermaid. Rare; moist meadows at lower elevations.

LINACEAE. Flax Family

Linum perenne L. ssp. Lewisii (Pursh) Hult. Western Blue Flax. Infrequent; Carpenter Ridge and higher dry slopes and meadows.

Loasaceae. Loasa Family

Mentzelia dispersa Wats. Nada Stick-leaf. Very rare; dry disturbed places near Field Station.

LORANTHACEAE. Mistletoe Family

- Arceuthobium americanum Nutt. ex Engelm. American Dwarf Mistletoe. Infrequent; on Pinus Murrayana on lower slopes.
 - A. campylopodum Engelm. f. abietinum (Engelm.) Gill. Fir Dwarf Mistletoe. Infrequent; on Abies magnifica on higher slopes.

MALVACEAE. Mallow Family

- Sidalcea glaucescens Greene. Glaucous Sidalcea. Infrequent; burned and open places on lower slopes.
 - S. oregana (Nutt.) Gray ssp. spicata (Regel) Greene. Spiked sidalcea. Common; moist meadows.

ONAGRACEAE. Evening-Primrose Family

- Camissonia andina (Nutt.) Raven. Plateau Primrose. Infrequent; lower rocky slopes among sagebrush.
 - C. subacaulis (Pursh) Raven. Sun Cup. Common; meadows and open places in woods.
- Epilobium angustifolium L. Fireweed. Infrequent; moist lower slopes and along Sagehen Creek.
 - E. brevistylum Barb. Slender Willow-herb. Frequent; moist meadows and bogs.
 - E. glaberrimum Barb. Glaucous Willow-herb. Infrequent; moist meadows and near streamlets.
 - E. Halleanum Hausskn. Hall's Willow-herb. Infrequent; along streamlets on higher slopes.
 - E. obcordatum Gray. Rock-fringe. Infrequent; higher slopes and Carpenter Ridge.
 - E. oregonense Hausskn. Oregon Willow-herb. Common; bogs and wet meadows near streamlets.
 - E. paniculatum Nutt. ex T. & G. Panicled Willow-herb. Rare; in disturbed places along roads.
 - E. Pringleanum Hausskn. Pringle's Willow-herb. Infrequent; moist areas and near springs.
- Gayophytum diffusum T. & G. ssp. parviflorum Lewis & Szweykowski. Small-flowered Diffuse Gayophytum. Frequent; dry slopes and exposed places.
 - G. heterozygum Lewis & Szweykowski. Heterozygous Gayophytum. Infrequent; dry rocky places on lower slopes.

Ludwigia palustris (L.) Ell. American Marsh Purslane. Infrequent; bogs and wet meadows.

ORCHIDACEAE. Orchid Family

- Corallorhiza maculata Raf. Spotted Coral-root. Rare; open places in woods above Mason's Bog.
- Habenaria dilatata (Pursh) Hook. var. leucostachys (Lindl.) Ames. Sierra Rein-orchis, White-flowered Bog Orchid. Frequent; bogs and near springs.
 - H. sparsiflora Wats. Sparsely-flowered Bog Orchid. Infrequent; bogs and near springs.
- Spiranthes Romanzoffiana Cham. & Schlecht. Hooded Ladies' Tresses. Common; bogs.

OROBANCHACEAE. Broom-rape Family

- Orobanche uniflora L. Naked Broom-rape. Rare; on Saxifraga along streamlets in bogs.
 - O. uniflora L. var. Sedi (Suksd.) Achey. Rare; on Artemisia on dry lower slopes.

PAPAVERACEAE. Poppy Family

Eschscholzia californica Cham. California Poppy. Rare; disturbed places near Field Station.

PINACEAE. Pine Family

- Abies concolor (Gord. & Glend.) Lindl. White Fir. Frequent; dry lower slopes.
 - A. magnifica A. Murr. Red Fir. Frequent; dry higher slopes.
- Pinus Jeffreyi Grev. & Balf. Jeffrey Pine. Common; dry lower slopes.
 - P. Lambertiana Dougl. Sugar Pine. Infrequent; dry higher slopes.
 - P. monticola Dougl. Western White Pine. Frequent; dry higher slopes.
 - P. Murrayana Grev. & Balf. Lodgepole Pine. Common; lower slopes and borders of meadows and bogs.
- Tsuga Mertensiana (Bong.) Carr. Mountain Hemlock. Frequent; dry higher slopes.

POLEMONIACEAE. Phlox Family

- Collomia grandiflora Dougl. ex Lindl. Large-flowered Collomia. Frequent; open areas on rocky slopes.
 - C. linearis Nutt. Narrow-leaved Collomia. Frequent; meadows and open places.
 - C. tinctoria Kell. Yellow-staining Collomia. Infrequent; exposed rocky slopes.
- Gilia capillaris Kell. Smooth-leaved Gilia. Frequent; dry slopes and meadows.
 - G. leptalea (Gray) Greene ssp. bicolor Mason & Grant. Two-colored

Bridges's Gilia. Common; dry slopes and meadows.

Ipomopsis aggregata (Pursh) V. Grant. Scarlet Gilia, Skyrocket. Frequent; exposed slopes and edges of woods.

Leptodactylon pungens (Torr.) Rydb. ssp. Hookeri (Dougl.) Wherry. Hooker's Granite Gilia. Rare; exposed brushy slopes.

Linanthus ciliatus (Benth.) Greene. Whisker-brush, Bristly-leaved Linanthus. Common; dry rocky slopes and open places.

L. ciliatus (Benth.) Greene var. neglectus (Greene) Jeps. Frequent; dry rocky slopes.

L. Harknessii (Curran) Greene. Harkness's Linanthus. Frequent; exposed rocky slopes.

L. Harknessii (Curran) Greene ssp. condensatus Mason. Infrequent; dry meadows and slopes.

Microsteris gracilis (Dougl. ex Hook.) Greene. Slender Phlox. Frequent; meadows and open places in woods.

M. gracilis (Dougl. ex Hook.) Greene ssp. humilis (Greene) V. Grant. Infrequent; moist meadows.

Navarretia Breweri (Gray) Greene. Brewer's Navarretia. Infrequent; dry meadows.

N. divaricata (Torr.) Greene. Mountain Navarretia. Frequent; open exposed areas and dry places in woods.

N. propinqua Suksd. Great Basin Navarretia. Common; moist meadows.

N. subuligera Greene. Awl-leaved Navarretia. Infrequent; dry rocky slopes.

Phlox diffusa Benth. Spreading Phlox. Frequent; exposed rocky slopes and open places in woods.

Polemonium californicum Eastw. Low Polemonium. Infrequent; shaded places on higher slopes and Carpenter Ridge.

P. caeruleum L. ssp. occidentale (Greene) J. F. Davids. Western Polemonium. Common; wet meadows and near springs and stream banks.

POLYGONACEAE. Buckwheat Family

Eriogonum marifolium T. & G. Marum-leaved Eriogonum. Infrequent; Carpenter Ridge and higher dry slopes.

E. nudum Dougl. ex Benth. Naked-stemmed Eriogonum, Tibinagua. Frequent; dry open areas on lower slopes.

E. spergulinum Gray. Spurry Eriogonum. Infrequent; road beds and disturbed places on lower slopes.

E. umbellatum Torr. var. umbellatum. Sulphur Flower. Frequent; dry open slopes.

Oxyria digyna (L.) Hill. Mountain Sorrel. Infrequent; higher rocky slopes and Carpenter Ridge.

Polygonum aviculare L. Common Knotweed. Frequent; lower slopes and disturbed places.

- P. bistortoides Pursh. Western Bistort, Snakeweed. Common to locally abundant; wet meadows.
- P. Davisiae Brew. ex Gray. Davis's Knotweed. Infrequent; higher dry slopes and Carpenter Ridge.
- P. Douglasii Greene. Douglas's Knotweed. Infrequent; dry lower slopes.
- P. Kelloggii Greene. Kellogg's Knotweed. Infrequent; dry areas on lower slopes.
- P. minimum Wats. Leafy Dwarf Knotweed. Infrequent; wet areas near Sagehen Creek.
- P. natans (Michx.) Eaton. American Water Persicaria, Water Smartweed. Rare; springs and edges of Sagehen Creek.
- P. phytolaccaefolium Meissn. Alpine Knotweed. Infrequent; dry brushy slopes.
- P. shastense Brew. ex Gray. Shasta Knotweed. Infrequent; higher dry slopes and Carpenter Ridge.
- P. spergulariaeforme Meissn. Fall Knotweed, Spurry Knotweed. Frequent; disturbed dry places.
- Rumex paucifolius Nutt. ex Wats. Alpine Sheep Sorrel. Infrequent; higher slopes and Carpenter Ridge.
 - R. salicifolius Weinm. Willow Dock. Frequent; dry meadows and open places on lower slopes.
 - R. triangulivalvis (Danser) Rech. f. var. oreolapathum Rech. f. Infrequent; wet meadows.

PORTULACACEAE. Purslane Family

- Calandrinia ciliata (R. & P.) DC. var. Menziesii (Hook.) Macbr. Red Maids. Common; dry meadows and open areas on lower slopes.
- Calyptridium umbellatum (Torr.) Greene. Pussy Paws. Common; dry open areas.
 - C. umbellatum (Torr.) Greene var. caudiciferum (Gray) Jeps. Infrequent; higher dry slopes and Carpenter Ridge.
- Lewisia nevadensis (Gray) Rob. Nevada Lewisia. Infrequent; lower slopes in woods.
 - L. triphylla (Wats.) Rob. Three-leaved Lewisia. Infrequent; higher meadows and slopes and Carpenter Ridge.
- Montia Chamissoi (Ledeb.) Dur. & Jacks. Toad-lily. Common; moist meadows.
 - M. perfoliata (Donn) Howell var. depressa (Gray) Jeps. Depressed Miner's-Lettuce. Frequent; shaded places in woods.

PRIMULACEAE. Primrose Family

- Dodecatheon Jeffreyi Van Houtte. Jeffrey's Shooting Star. Common; moist meadows and bogs.
- Primula suffrutescens Gray. Sierra Primrose. Infrequent; higher dry slopes and Carpenter Ridge.

PTERIDACEAE. Bracken Family

- Cheilanthes gracillima C. C. Eat. Lace Fern. Infrequent; rocky outcrops of lower dry slopes.
- Pteridium aquilinum (L.) Kuhn var. pubescens Underw. Western Bracken. Common; south-facing slopes.

Pyrolaceae. Wintergreen Family

- Allotropa virgata T. & G. ex Gray. Sugar Stick. Frequent; ridges in woods.
- Chimaphila Menziesii (R. Br. ex D. Don) Spreng. Little Prince's Pine, Pipsissewa. Infrequent; shaded slopes in woods.
 - C. umbellata (L.) Barton var. occidentalis (Rydb.) Blake. Western Prince's Pine. Infrequent; dry brushy slopes.
- Pterospora Andromedea Nutt. Pinedrops. Frequent; shaded areas among pines.
- Pyrola californica Krisa. Bog Wintergreen. Infrequent; edges of bogs.
 - P. picta Sm. White-veined Wintergreen, Shin-leaf. Infrequent; dry shaded areas among pines.
 - P. picta Sm. ssp. dentata (Sm.) Piper. Nootka Wintergreen. Common; lower dry slopes among pines.

RANUNCULACEAE. Crowfoot Family

- Aconitum columbianum Nutt. Columbia Monkshood. Common; damp shaded places near Sagehen Creek.
- Aquilegia formosa Fisch. var. truncata (F. & M.) Jones. Columbine. Frequent; moist shaded places in woods.
- Caltha Howellii (Huth) Greene. White Marsh-marigold. Frequent; boggy places in woods.
- Delphinium glaucum Wats. Glaucous Rocky Mountain Larkspur. Infrequent; higher wet meadows and Carpenter Ridge.
 - D. Nuttallianum Pritz. ex Walp. Nuttall's Larkspur. Common; bogs and moist meadows.
- Myosurus aristatus Benth. ssp. montanus (Campbell) Stone. Sedge Mouse-tail. Frequent; bogs and pools near springs.
- Paeonia Brownii Dougl. ex Hook. Western Peony. Frequent; lower rocky slopes.
- Ranunculus alismaefolius Geyer ex Benth. var. Hartwegii (Greene) Jeps. Water-plantain Buttercup. Frequent; moist meadows.
 - R. alismaefolius Geyer ex Benth. var. Lemmonii (Gray) L. Benson. Infrequent; near springs.
 - R. aquatilis L. var. capillaceus (Thuill.) DC. Water Buttercup. Frequent; in Sagehen Creek and streamlet tributaries.
 - R. occidentalis Nutt. var. Eisenii (Kell.) Gray. Eisen's Western Buttercup. Frequent; moist meadows.

- R. occidentalis Nutt. var. ultramontanus Greene. Infrequent; adjacent to streamlets in meadows.
- R. orthorhynchus Hook. Straight-beaked Buttercup. Infrequent; in meadows.
- R. uncinatus D. Don. Hooked Buttercup. Infrequent; moist semi-shaded places in edges of woods.
- Thalictrum Fendleri Engelm. ex Gray. Fendler's Meadow-Rue. Common; moist shaded places in edges of woods.
 - T. sparsiflorum Turcz. Few-flowered Meadow-Rue. Frequent; moist shaded places near Sagehen Creek.

RHAMNACEAE. Buckthorn Family

- Ceanothus prostratus Benth. Squaw Carpet, Mahala Mats. Common; open areas among pines on rocky slopes.
 - C. velutinus Dougl. ex Hook. Tobacco Brush. Common; burned areas and open places on wooded rocky slopes.
- Rhamnus alnifolia L'Her. Alder-leaved Coffeeberry. Rare; near springs.

Rosaceae. Rose Family

- Amelanchier pumila Nutt. Smooth Service-berry. Frequent; partly shaded lower slopes.
- Cercocarpus ledifolius Nutt. Curl-leaved Mountain-mahogany. Infrequent; higher dry rocky slopes and Carpenter Ridge.
- Fragaria virginiana L. ssp. platypetala Staudt. Broad-petaled Strawberry. Frequent; moist shaded places in woods.
- Geum macrophyllum Willd. Large-leaved Avens. Frequent; moist meadows and banks of Sagehen Creek.
- Holodiscus microphyllus Rydb. Small-leaved Rock-spiraea. Infrequent; dry rocky slopes.
- Horkelia fusca Lindl. ssp. pseudocapitata (Rydb.) Keck. False-headed Dusky Horkelia. Infrequent; open areas and edges of woods.
- Ivesia sericoleuca (Rydb.) Rydb. Plumas Ivesia. Frequent; meadows and dry slopes.
 - unguiculata Gray. Yosemite Ivesia. Frequent; meadows and edges of woods.
- Potentilla glandulosa Lindl. ssp. nevadensis (Wats.) Keck. Sierra Sticky Cinquefoil. Common; meadows and open places in woods.
 - P. gracilis Dougl. ex Hook. ssp. Nuttallii (Lehm.) Keck. Nuttall's Cinquefoil. Frequent; meadows and edges of woods.
- Prunus emarginata (Dougl.) Walp. Bitter Cherry. Frequent; open rocky slopes.
- Purshia tridentata (Pursh) DC. Northern Antelope Brush, Bitter-brush. Common; dry rocky slopes.
- Rosa californica Cham. & Schlecht. California Rose. Frequent; moist shaded places among conifers on lower slopes.

R. Woodsii Lindl. var. ultramontana (Wats.) Jeps. Interior Rose. Frequent; moist areas and edges of woods on lower slopes.

Rubus parviflorus Nutt. Thimbleberry. Rare; near springs.

Spiraea densiflora Nutt. ex T. & G. Rose-colored Meadow-sweet. Infrequent; higher rocky slopes and Carpenter Ridge.

Rubiaceae. Madder Family

- Galium bifolium Wats. Low Mountain Bedstraw. Infrequent; in edges of woods and near disturbed places on lower slopes.
 - G. Grayanum Ehrend. Gray's Bedstraw. Infrequent; higher rocky slopes and Carpenter Ridge.
 - G. mexicanum HBK. var. asperulum (Gray) Dempster. Tall Rough Bedstraw. Infrequent; moist soils in woods and near Sagehen Creek.
 - G. trifidum L. var. subbiflorum Wieg. Trifid Bedstraw. Common; wet meadows and near Sagehen Creek.
 - G. triflorum Michx. Sweet-scented Bedstraw. Frequent; moist shaded places and near Sagehen Creek.
- Kelloggia galioides Torr. Kelloggia. Frequent; dry shaded slopes in woods.

SALICACEAE. Willow Family

- Populus tremuloides Michx. Quaking Aspen. Frequent; along Sagehen Creek and near springs.
 - P. trichocarpa T. & G. Black Cottonwood. Very rare; single tree on Sagehen Creek, ca. 4.8 km west of Field Station.
- Salix argophylla Nutt. Silver-leaved Willow. Infrequent; moist meadows and near streamlets.
 - S. Geyeriana Anderss. Geyer's Willow. Common; along Sagehen Creek.
 - S. Geyeriana Anderss. var. argentea (Bebb) C. K. Schneid. Silver Geyer's Willow. Infrequent; along Sagehen Creek.
 - S. lasiandra Benth. Red Willow. Frequent; along Sagehen Creek.
 - S. lasiandra Benth. var. lancifolia (Anderss.) Bebb. Lance-leaved Red Willow. Infrequent; along Sagehen Creek.
 - S. Lemmonii Bebb. Lemmon's Willow. Common; along Sagehen Creek and near springs.

SAXIFRAGACEAE. Saxifrage Family

Lithophragma glabrum Nutt. Rock Star. Infrequent; moist shaded places in edges of woods.

Mitella Breweri Gray. Brewer's Miterwort. Infrequent; shaded places in edges of bogs.

Parnassia palustris L. var. californica Gray. California Grass-oi-Parnassus. Infrequent; wet meadows.

Ribes cereum Dougl. White Squaw Currant. Frequent; dry exposed slopes.

- R. divaricatum Dougl. var. inerme (Rydb.) McMinn. White-stemmed Gooseberry. Infrequent; moist shaded places on lower slopes.
- R. montigenum McClat. Alpine Prickly Currant. Infrequent: dry places on higher slopes.
- R. nevadense Kell. Sierra Nevada Currant. Infrequent; dry higher ridges and Carpenter Ridge.
- R. Roezlii Regel. Sierra Gooseberry. Frequent; dry open slopes.
- R. viscosissimum Pursh var. Hallii Jancz. Hall's Sticky Currant. Infrequent; moist shaded places and near springs.
- Saxifraga oregana Howell. Bog Saxifrage. Common; bogs and moist meadows.
 - S. odontoloma Piper. Brook Saxifrage. Frequent; near streamlets in bogs and headwaters of Sagehen Creek.

SCROPHULARIACEAE. Figwort Family

- Castilleja Applegatei Fern. Wavy-leaved Indian Paint-brush. Frequent; exposed dry rocky slopes.
 - C. miniata Dougl. ex Hook. Great Red Indian Paint-brush. Common; moist sandy areas near springs and Sagehen Creek.
 - C. nana Eastw. Dwarf Alpine Indian Paint-brush. Infrequent; exposed rocky places on higher slopes and Carpenter Ridge.
 - C. pilosa (Wats.) Rydb. Hairy Indian Paint-brush. Infrequent; gravelly slopes and edges of dry meadows.
- Collinsia parviflora Dougl. ex Lindl. Small-flowered Blue-eyed Mary. Frequent; moist shaded places and near streamlets in meadows.
 - C. Torreyi Gray var. Wrightii (Wats.) Jtn. Wright's Blue-eyed Mary. Infrequent; exposed gravelly places on higher slopes.
- Gratiola ebracteata Benth. Bractless Hedge-hyssop. Rare; disturbed places in lower wet meadows.
- Mimulus Breweri (Greene) Cov. Brewer's Monkey-flower. Infrequent; drying meadows.
 - M. guttatus Fisch. ex DC. Common Large Monkey-flower. Common; bogs, wet meadows and banks of streamlets.
 - M. moschatus Dougl. ex Lindl. Musk Flower. Common; moist soil near springs and banks of streamlets.
 - M. primuloides Benth. Primrose Monkey-flower. Abundant; bogs and wet meadows.
 - M. rubellus Gray. Ciliolate-toothed Monkey-flower. Infrequent; sandy slopes near meadows.
 - M. Suksdorfii Gray. Suksdorf's Monkey-flower. Frequent; moist meadows.
 - M. Tilingii Regel. Larger Mountain Monkey-flower. Frequent; damp meadows and near streamlets.
 - M. Torreyi Gray. Torrey's Monkey-flower. Infrequent; partially shaded places in woods on lower slopes.

- Orthocarpus Copelandii Eastw. var. cryptanthus (Piper) Keck. Infrequent; exposed dry slopes of higher ridges and Carpenter Ridge.
 - O. hispidus Benth. Hairy Orthocarpus. Common; meadows.
- Pedicularis attollens Gray. Little Elephant's Head. Infrequent; moist areas of higher slopes and Carpenter Ridge.
 - P. groenlandica Retz. ssp. surrecta (Benth.) Piper. Raised Elephant's Head. Common; bogs, damp meadows and shaded places.
 - P. semibarbata Gray. Pine-woods Lousewort. Frequent; dry shaded slopes in woods.
- Penstemon deustus Dougl. ex Lindl. Hot-rock Penstemon. Common; dry rocky slopes.
 - P. gracilentus Gray. Slender Penstemon. Common; dry rocky slopes and open places in woods.
 - *P. heterodoxus* Gray. Sierran Penstemon. Infrequent; higher dry slopes and Carpenter Ridge.
 - P. laetus Gray ssp. Roezlii (Regel) Keck. Roezl's Gay Penstemon. Frequent; rocky slopes in woods.
 - P. Lemmonii Gray. Bush Beard-tongue. Frequent; brushy rocky slopes.
 - P. Newberryi Gray. Mountain Pride. Infrequent; exposed higher rocky slopes and Carpenter Ridge.
 - P. Rydbergii A. Nels. Meadow Penstemon. Common; meadows.
 - P. speciosus Dougl. ex Lindl. Showy Penstemon. Frequent; exposed sandy slopes.
 - P. speciosus Dougl. ex Lindl. ssp. Kennedyi (A. Nels.) Keck. Kennedy's Penstemon. Infrequent; higher rocky slopes and Carpenter Ridge.
- Verbascum Thapsus L. Common Mullein. Infrequent; brushy rocky slopes and near streamlets.
- Veronica americana (Raf.) Schw. American Brooklime. Frequent; moist places and near banks of Sagehen Creek.
 - V. peregrina L. ssp. xalapensis (HBK.) Penn. Jalapa Speedwell. Infrequent; moist meadows.
 - V. serpyllifolia L. var. humifusa (Dickson) Vahl. Low Thyme-leaved Speedwell. Common; banks of streamlets and moist places in woods.

SOLANACEAE. Nightshade Family

Chamaesaracha nana (Gray) Gray. Dwarf Chamaesaracha. Frequent; dry exposed sandy places.

Umbelliferae. Carrot Family

- Angelica Breweri Gray. Brewer's Angelica. Infrequent; exposed rocky slopes.
- Heracleum lanatum Michx. Cow-parsnip. Infrequent; moist slopes and shaded places.

- Ligusticum Grayi Coult. & Rose, Gray's Lovage. Frequent; moist slopes and areas along Sagehen Creek.
- Lomatium dissectum (Nutt.) Math. & Const. Fern-leaved Lomatium. Infrequent; in edges of woods on rocky lower slopes.
- Osmorhiza chilensis H. & A. Mountain Sweet-cicely. Infrequent; moist shaded places along streamlets.
 - O. occidentalis (Nutt.) Torr. Western Sweet-cicely. Frequent; woods and shaded places along Sagehen Creek.
- Perideridia Bolanderi (Gray) Nels. & Macbr. Bolander's Yampah. Frequent; meadows and exposed slopes.
 - P. Lemmonii (Coult. & Rose) Chuang & Const. Lemmon's Yampah. Infrequent; meadows and exposed slopes at edges of woods.
- Pteryxia terebinthina (Hook.) Coult. & Rose var. californica (Coult. & Rose) Math. California Pteryxia. Carpenter Ridge and high exposed ridges.
- Sanicula graveolens Poepp. ex DC. Sierra Sanicle. Rare; open woods near streamlets.
- Sphenosciadium capitellatum Gray. Ranger's Button, Swamp Whiteheads. Common; near springs and along Sagehen Creek.

VALERIANACEAE. Valerian Family

Valeriana capitata Pall. ex Link ssp. californica (Heller) F. G. Meyer. California Valerian. Frequent; moist meadows, streamlet banks, and shaded places in woods.

VIOLACEAE. Violet Family

Viola adunca. Sm. Western Dog Violet. Infrequent; moist slopes.

- V. Macloskeyi Lloyd. Macloskey's Violet. Frequent; moist places in woods and along banks of Sagehen Creek.
- V. purpurea Kell. ssp. integrifolia Baker & Clausen. Frequent; exposed slopes and edges of woods.
- V. purpurea Kell. ssp. mesophyta Baker & Clausen. Infrequent; dry slopes and edges of woods.

PLANTS REPORTEDLY OBSERVED IN THE SAGEHEN CREEK DRAINAGE BASIN BUT NOT COLLECTED

Agoseris glauca (Pursh) Greene var. laciniata (D. C. Eat.) Smiley.

Aquilegia formosa Fisch. var. pauciflora (Greene) Boothman.

Arabis Davidsonii Greene.

Arnica cordifolia Hook.

Artemisia Douglasiana Bess.

A. ludoviciana Nutt. ssp. incompta (Nutt.) Keck.

Calochortus Nuttallii Torr.

Calycadenia mollis Gray.

Carex filifolia Nutt.

Chrysothamnus viscidiflorus (Hook.) Nutt. ssp. pumilus (Nutt.) Hall & Clem.

Cryptantha pterocarya (Torr.) Greene.

C. Torreyana (Gray) Greene.

Dodecatheon alpinum (Gray) Greene.

Epilobium anagallidifolium Lam.

E. exaltatum E. Drew.

Gayophytum ramosissimum T. & G.

Helenium Hoopesii Gray.

Ivesia Gordonii (Hook.) T. & G.

Juncus macrandrus Cov.

Lemna gibba L.

Lupinus meionanthus Gray.

L. sellulus Kell.

Matricaria matricarioides (Less.) Porter.

Perideridia Gairdneri (H. & A.) Math.

Phacelia curvipes Torr. ex Wats.

P. heterophylla Pursh ssp. virgata (Greene) Heckard.

Pinus ponderosa Dougl. ex P. C. Lawson.

Poa Hansenii Scribn.

Prunus virginiana L. var. demissa (Nutt.) Torr.

Quercus chrysolepis Liebm. var. nana (Jeps.) Jeps.

Salix lutea Nutt.

Sambucus melanocarpa Gray.

Scirpus criniger Gray.

Silene Lemmonii Wats.

Stachys albens Gray.

Trifolium cyathiferum Lindl.

Veronica arvensis L.

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